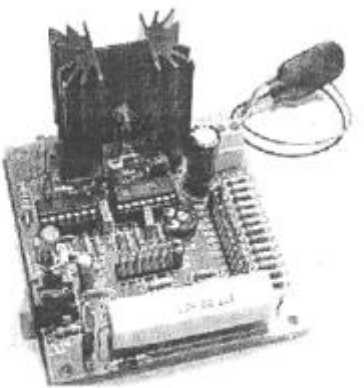
HIGH-Q velleman-kit

K7300

UNIVERSAL BATTERY CHARGER / DISCHARGER

- Charge current from 15mA to 750mA (selectable)
- Selectable batteries: 1,2V / 2,4V / 3,6V / 4,8V / 6V / 7,2V / 8,4V / 9,6V
- Fast charge in 52min
- Normal charge in 14hour
- Automatic discharge and charge sequence
- 15VDC / 800mA adapter power supply type PS1508
- Dimensions: 85 x 78 usable housing type G311

modifications reserved



PARTLIST

CODE	I	P	E	SF	S	DK	N	D	GB	F	NL	CODE
	CODICE COLORE	CODIGO DE CORES	CODIGO DE COLORES	VÄRI KOODI	FÄRG SCHEMA	FARVE KODE	FARGE KODE	FARB KODE	COLOUR CODE	CODIFICATION DES COULEURS	KLEUR KODE	
0	Nero	Preto	Negro	Musta	Svart	Sort	Sort	Schwarz	Black	Noir	Zwart	0
1	Marrone	Castanho	Marrón	Ruskea	Brun	Brun	Brun	Braun	Brown	Brun	Bruin	1
2	Rosso	Encarnado	Rojo	Punainen	Röd	Rød	Rød	Rot	Red	Rouge	Rood	2
3	Arancíato	Laranja	Naranjado	Oranssi	Orange	Orange	Orange	Orange	Orange	Orange	Oranje	3
4	Giallo	Amarelo	Amarillo	Keltainen	Gul	Gul	Gul	Gelb	Yellow	Jaune	Geel	4
5	Verde	Verde	Verde	Vihreä	Grön	Grøn	Grønn	Grün	Green	Vert	Groen	5
6	Blu	Azul	Azul	Sininen	Blå	Blå	Blå	Blau	Blue	Blue	Blauw	6
7	Viola	Violeta	Morado	Purppura	Lila	Violet	Violet	Violet	Purple	Violet	Paars	7
8	Grigio	Cinzento	Gris	Harmaa	Grå	Grå	Grå	Grau	Grey	Gris	Grijs	8
9	Bianco	Branco	Blanco	Valkoinen	Vit	Hvid	Hvidt	Weiss	White	Blanc	Wit	9
A	Argento	Prateado	Plata	Hopea	Silver	Sølv	Sølv	Silber	Silver	Argent	Zilver	A
B	Oro	Dourado	Oro	Kulta	Guld	Guld	Guldl	Gold	Gold	Or	Goud	B

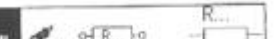
1

J

2 1/4W

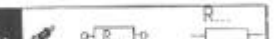
R1: 82 (8-2-0-B)
R2: 47 (4-7-0-B)
R3: 22 (2-2-0-B)
R4: 18 (1-8-0-B)
R5: 12 (1-2-0-B)
R6: 10 (1-0-0-B)
R7: 8,2 (8-2-B-B)
R8: 6,8 (6-8-B-B)
R9: 4,7 (4-7-B-B)
R10: 3,3 (3-3-B-B)
R11: 2,2 (2-2-B-B)
R12, R13: 3,3 (3-3-B-B)
R14: 100K (1-0-4-B)
R15: 470 (4-7-1-B)
R16: 2K2 (2-2-2-B)
R17: 120K (1-2-4-B)
R18: 15K (1-5-3-B)
R19: 22K (2-2-3-B)
R20: 33K (3-3-3-B)
R21: 47K (4-7-3-B)
R22: 82K (8-2-3-B)
R23: 150K (1-5-4-B)
R24: 470K (4-7-4-B)
R25... R26: 10K (1-0-3-B)
R27: 3K3 (3-3-2-B)
R28... R32: 10K (1-0-3-B)
R33: 1K (1-0-2-B)
R34: 33ohm (3-3-0-B)
R35: 1M (1-0-5-B)

3 0.6W



R36: 82 (8-2-0-B-9)

4 1W



R37: 270 (2-7-1-B) !

5

D1... D3: 1N4148 !
D4, D5: 1N4000 ... 4007 !

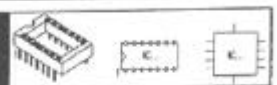
6

ZD1: 6V2 !
ZD2: 12V / 1.3W !

7

RV1: 220K (250K)

8



IC1: 16P
IC2: 14P

9

C1, C2: 47nF (473, µ047)

10

C3: 1µF !
C4: 10µF !
C5: 1000µF !

11 10W

R38: 10ohm !

12

T1: BC557...

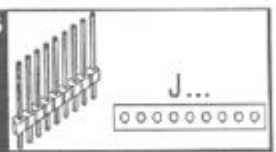
13

VR1: LM385-2.5

14

LD1: 3mm RED !
LD2: 3mm GREEN !

15

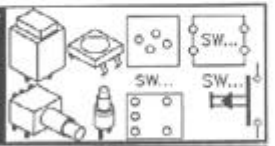


J1: 1 x 2P !
J2: 1 x 3P !
J3, J4: 2 x 8P !
J5, J6: 2 x 12P !

16

J7: DJ-005

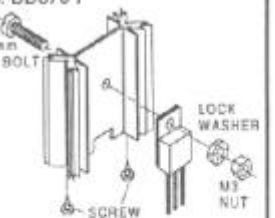
17



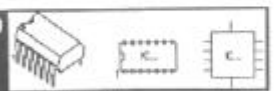
SW1: 1P ON !

18

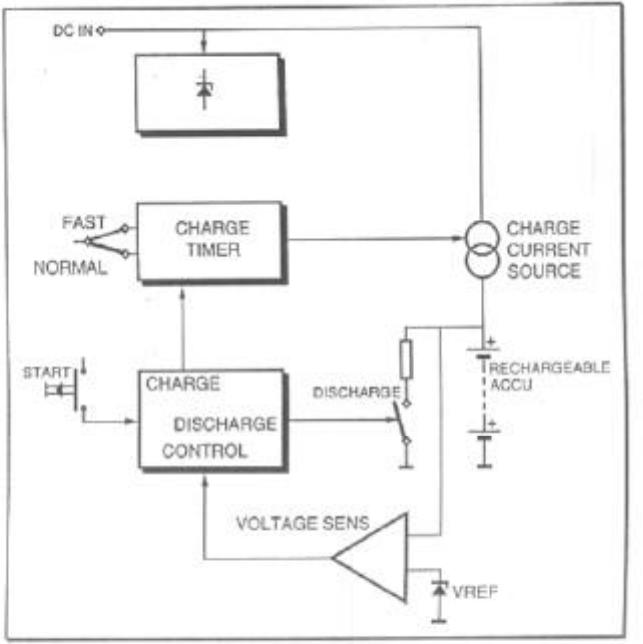
T2: BD237 !
T3: BD676 !

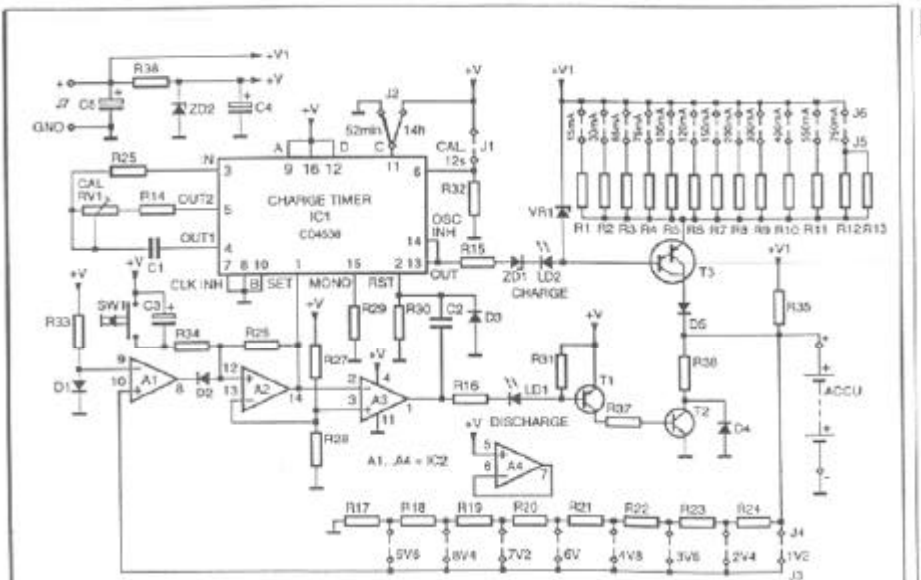


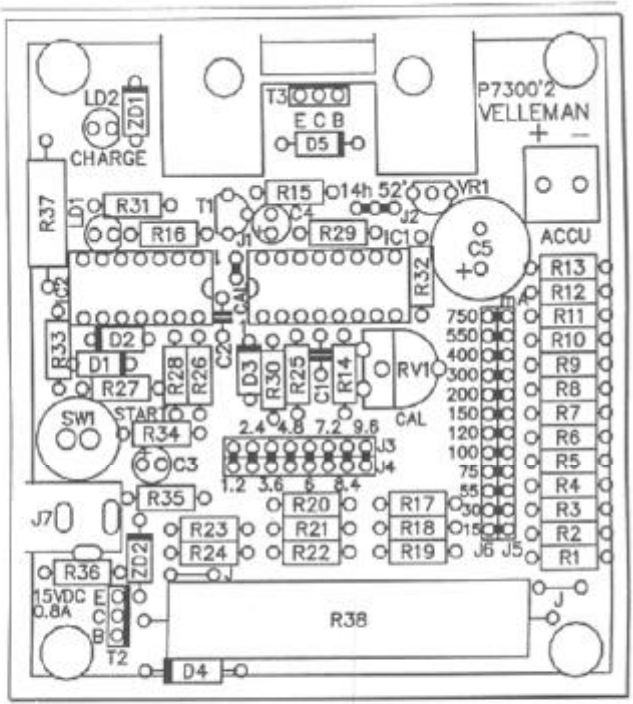
19



IC1: CD4536 !
IC2: LM324 !


DC IN
FAST
NORMAL
CHARGE
TIMER
CHARGE
CURRENT
SOURCE
START
CHARGE
DISCHARGE
CONTROL
DISCHARGE
RECHARGEABLE
ACCU
VOLTAGE SENS
VREF


+V1
R36
+V
C5
GND
ZD2
C4
J2
52min
14h
CAL
12s
J1
R25
CAL
RV1
R14
OUT2
OUT1
C1
CHARGE TIMER
IC1
CD4536
OSC
INH
R32
R15
CLK INH
SET
MONO
RST
OUT
ZD1
LD2
CHARGE
VR1
R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13
J6
J5
T3
R35
D5
ACCU
R33
SW1
C3
R34
R26
R29
R30
C2
D3
R31
T1
R38
D1
A1
D2
A2
R27
A3
R16
LD1
R37
T2
C4
R28
DISCHARGE
A1, A4 = IC2
A4
R17
R18
R19
R20
R21
R22
R23
R24
J4
5V6
6V4
7V2
8V
4V8
3V6
2V4
1V2
J3


P7300'2
VELLEMAN
+ −
LD2
ZD1
CHARGE
T3
E C B
D5
R37
LD1
R31
T1
R15
14h 52'
VR1
R16
J1
C4
R29
J2
IC1
C5
+
ACCU
C2
CAL
R32
R13
R12
R11
R10
R9
R8
R7
R6
R5
R4
R3
R2
R1
750
550
400
300
200
150
120
100
75
55
30
15
R33
D2
D1
R27
R28
R26
C20
D3
R30
R25
C10
R14
RV1
CAL
SW1
START
R34
2.4
4.8
7.2
9.6
C3
J3
J4
1.2
3.6
6
8.4
R35
J7
R20
R17
R23
R21
R18
R24
R22
R19
J6
J5
R36
ZD2
15VDC
0.8A
E
C
B
T2
J
R38
D4